



Smart-Household Assessment Tool

This tool assesses community and household vulnerability to climate change and aims to give communities ideas and practical recommendations for implementing smart building design and operations.

Biographical Data

Full Name :	Last Name/Surname									
	First Name									
Sex	Male					Female				
In which community is the property located										
How long have you lived in your community?	1-5 years			6-10 years			11-15years			
	16-20 years			20+ years						
How many people (including yourself) live in the household?	1	2	3	4	5+					
How many rooms exist in the dwelling/house? (Exclude kitchen and bathroom)	1	2	3	4	5+	Type of property		Own		
	Other _____							Rent		
Is the property insured?	Yes					No				

Building Materials

	Concrete	Concrete block	Wood	Plyboard	Aluminum/metal sheet	Thatch (Straw, reeds, palm leaves, or a similar material.)	Sheetrock	Other
Roof system								
Interior Wall Finishes								
Exterior Wall Finishes								
Foundation								
Structural Frame								
Floor								

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Building Features

Window frame	Wood	Vinyl	Fiberglass	Aluminum	Wood-Clad	Composite
Window glass	Single	Double	Security/fortified			
ENERGY STAR rated windows.	Yes No					
Doors	Glass	Steel	PVC	Fiberglass	Aluminum Glazed	
Insect screens	Doors: Yes No		Windows: Yes No			
Foundation level from ground	Level with ground		1block	2-5 blocks	6+ blocks	

Awareness and Preparedness

What is the likelihood of the following disasters to affect the area you live in?	1. Earthquake	Definitely	Probably	Possibly	Probably not	Definitely not	
	2. Floods	Definitely	Probably	Possibly	Probably not	Definitely not	
	3. Hurricanes	Definitely	Probably	Possibly	Probably not	Definitely not	
Is your area prone to flooding?	Yes No						
Is your yard prone to flooding?	Yes No						
Do you know where your emergency shelter is?	Yes No						
Have you arranged for the following, in case of an emergency or a disaster? (Circle Y=Yes or N=No)	A minimum of 72 hours of water supply.	Y	N	Disaster kits		Y	N
				Necessary medications		Y	N
	A minimum of 72 hours of food supply	Y	N	Money		Y	N
	A mode of communication which is not dependent on electricity	Y	N	Alternative source to get in the house		Y	N
				Supplies for children			
	Enough flashlights or light sources	Y	N	Supplies for aged, or people with special needs		Y	N
	Evacuation vehicles	Y	N	Evacuation plan		Y	N
	First aid kits	Y	N	Insurance coverage		Y	N
	An alert system for family and community	Y	N				
	Necessary hygiene and sanitation products	Y	N				
Tools that can come in handy in case of an emergency.	Y	N					



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Water and Energy Conservation Measures

Water						
Water-Conserving Fixtures	Bathroom faucets	Kitchen faucets	Showerheads	Toilets	Urinals/Bidet	
Source of potable/drinking water	Public	Bottled	Catchment (Cistern/tank, drums.)		Well	Rainwater
Water treatment	How often is treatment done?			Who does the treatment?		
	Daily	Weekly	Monthly	Myself	Public company	
	Yearly			Private company		
What materials are your water containers made from?	Plastic	Glass	Metal			
Energy Star Ratings						
ENERGY STAR Appliances	Dishwashers	Refrigerators	Washing Machines	Air condition units		
ENERGY STAR- in all communal spaces, labelled fixtures or any similar high-performance lighting fittings and bulbs	Interior		Exterior			
	Yes		Yes			
	No		No			
Air condition unit						
Smart	Heating	Cooling	Ventilation			
Type	Inverter	Conventional				
Energy						
Select source of energy used in household.	BPL/BEC	Generator	Wind	Solar	No Supply	Other _____
Select source of energy used for water heating.	Solar	Gas	Electric			
	None					

Storm Water Management

Permeable materials for all walkways, patios and driveways	Yes No
Install rain gardens to reduce storm water runoff	Yes No

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Waste Reduction and Recycling

Built-in recycling system.	Per unit Yes No	Community Yes No			
Should more be done to educate the local community about waste/waste issues and ways to minimize waste to landfill?	Yes No	In your opinion, do residents have adequate opportunity to recycle?		Yes No	
Do you have a recycling program in the community?	Yes	No	Partially	Don't know	Other _____
How do you dispose of your garbage?	Bury in hole	Collected by the city	Open burning	Other _____	
What is the collection frequency for garbage?					
Do you have a storage or disposal area for garbage in your community?	Near you	In another settlement	Don't know	Other _____	
Do you practice the 3R initiative	Reduce	Reuse	Recycle	All	

Transportation

What type of transportation do you use?	Car	Truck	Motorcycle	Bus	Bicycle	N/A
Do you own a vehicle?	Yes	No				
Do you participate in?	Carpooling	Biking	Walking			
What type of energy source your vehicle uses?	Diesel	Gas	Electric	Hybrid	Other _____	
Is public transportation available to you?	Yes	No				



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Climate Change and Health

In your opinion, do you think the temperature on earth has been rising over the past decade? Yes No Don't know	In your view, has air pollution ever affected your health? Yes No Don't know	Have you had any flood damage in the last 5 years (including to your home, yard, or vehicle) Yes No Don't know
Have you heard of "climate change"? Yes No	Do you think anything can be done to tackle climate change? Yes No Don't know	Has anyone in your household suffered from asthma in the past 5 years? Yes No Don't know
Has there been an increase of pest (rats, mosquitoes, etc.) in your community in the last 5 years	Yes No Don't know	
Are these members of your home in need of assistance in the event of an emergency? (Circle any that apply)	Elderly Wheelchair bound Disabled Mental Health Illness Visual Impairment Hard of Hearing	
Has anyone in your household ever suffered from vector borne diseases (dengue, zika, malaria or chikungunya)?	Yes No Don't know	

Food Security

After Hurricane Dorian, did you worry that your household would not have enough food? Yes No	Do you have any food stocks in your household for a natural disaster? Yes No Don't know	How long will these stocks last your household? _____ weeks.
What type of foods do you normally eat	Meat Fish Nuts Fruits & Vegetables	Rice, potato, pasta, corn Other
Which one do you consume more?	Canned Food Fresh Food (grocery) Fresh Food (home grown)	
What type of food is grown at home? (List)	1. 2. 3.	
	4. 5. 6.	

Landscape

Landscape around your home	Native	Food producing	Natural Shading
Has the shoreline show signs of change within the last 30 years?			
If yes, what caused the changes?			
What changes are noticeable?			

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